

CLAIM AMENDMENTS

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1. - 20. (Canceled)

21. (Currently Amended) Portable apparatus for deep vein thrombosis (DVT) prophylaxis, comprising:

a substantially inelastic outer rigid shell having an inner wall, the shell being dimensioned for wearing around a portion of a human limb;

an inflatable/deflatable bladder supported between the inner wall of the outer shell and the portion of a human limb; and

battery-operated electrical and pneumatic circuitry, all wearable by the user without interconnection to any other apparatus, the electrical circuitry including:

an electrically operated air compressor, and

a controller operative to inflate the bladder on periodic basis so as to create a level of compression against the portion of the limb for a period of time, after which the bladder deflates until the next compression cycle.

22. - 23. (Canceled)

24. (Previously Presented) The apparatus of claim 21, wherein the controller is operative to reduce the rate of cycling between compression and decompression as a function of time.

25. (Previously Presented) The apparatus of claim 24, wherein the reduction in cycling between compression and decompression drops off slowly over the course of several days.

26. (Previously Presented) The apparatus of claim 25, wherein the rate of cycling between compression and decompression gradually reduces to one cycle every several minutes.

27. (Previously Presented) The apparatus of claim 25, wherein the rate of cycling between

compression and decompression gradually reduces to one cycle every hour or longer.

28. (Previously Presented) The apparatus of claim 21, further including a user operable control for switching between a fixed rate of compression and decompression to an automatic mode wherein the cycling between compression and decompression reduces over time.

29. (Previously Presented) The apparatus of claim 21, further including a pressure sensor in pneumatic communication with the bladder to terminate the operation of the compressor upon reaching a desired level of positive pressure.

30. (Previously Presented) The apparatus of claim 29, further including a valve for deflating the bladder upon achieving a predetermined pressure.

31. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell forms part of a cast.

32. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell is dimensioned for wearing around an upper portion of a human calf.

33. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell is dimensioned for wearing around a lower portion of the human calf immediately above a human foot.

34. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell is dimensioned for wearing at least a portion of a human foot.

35. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell is dimensioned for wearing around at least a portion of a human hand.

36. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell is substantially rigid.

37. (Previously Presented) The apparatus of claim 21, wherein the substantially inelastic outer shell is composed of a non-stretch fabric.

38. - 44. (Canceled)

45. (Previously Presented) Portable apparatus for deep vein thrombosis (DVT) prophylaxis, comprising:

a substantially inelastic outer shell having an inner wall, the shell being dimensioned for wearing around a portion of a human limb;

an inflatable/deflatable bladder supported between the inner wall of the outer shell and the portion of a human limb; and

battery-operated electrical and pneumatic circuitry, all wearable by the user without interconnection to any other apparatus, the electrical circuitry including:

an electrically operated air compressor, and

a controller operative to perform the following functions:

a) inflate the bladder on periodic basis so as to create a level of compression against the portion of the limb for a period of time, after which the bladder deflates until the next compression cycle, and

b) vary the level of compression as a function of time.

46. (Previously Presented) The apparatus of claim 45, wherein the controller is further operative to reduce the rate of cycling between compression and decompression as a function of time.

47. (Previously Presented) The apparatus of claim 45, further including a user operable control for switching between a fixed rate of compression and decompression to an automatic mode wherein the cycling between compression and decompression reduces over time.

48. (Previously Presented) Portable apparatus for deep vein thrombosis (DVT) prophylaxis, comprising:

a substantially inelastic outer shell having an inner wall, the shell being dimensioned for wearing around a portion of a human limb;

an inflatable/deflatable bladder supported between the inner wall of the outer shell and the portion of a human limb; and

battery-operated electrical and pneumatic circuitry, all wearable by the user without interconnection to any other apparatus, the electrical circuitry including:

an electrically operated air compressor, and

a controller operative to perform the following functions:

a) inflate the bladder on periodic basis so as to create a level of compression against the portion of the limb for a period of time, after which the bladder deflates until the next compression cycle, and

b) vary the onset of decompression as a function of time.

49. (Previously Presented) The apparatus of claim 48, wherein the controller is further operative to reduce the rate of cycling between compression and decompression as a function of time.

50. (Previously Presented) The apparatus of claim 48, further including a user operable control for switching between a fixed rate of compression and decompression to an automatic mode wherein the cycling between compression and decompression reduces over time.